

# DATASHEET

## DF1 Messaging Module PLX51-DF1-MSG

The DF1 messaging module can be used in applications requiring DF1 to Logix messaging. The module can be used to communicate between PC's or PLC's using DF1™ or EtherNet/IP™.

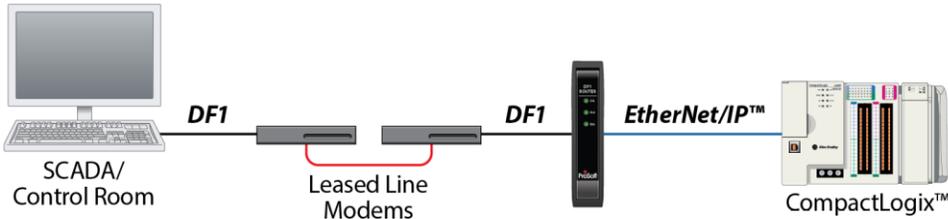
Have a bunch of MicroLogix or SLC's in your water or waste water treatment facility? DF1 Radio Modem protocol can be used for migrating old SLC's and MicroLogix PLC's to newer Logix based platforms over leased line modems. Start migrating the legacy equipment to new Logix based equipment with the help of ProSoft Technology's DF1 Messaging Module.



### Features

- ◆ DF1 Radio Modem with support for store and forward functions
- ◆ Intelligent routing to ControlLogix® or CompactLogix™ from PLC-5®, SLC, MicroLogix controllers and SCADA systems
- ◆ Direct-to-tag technology simplifies data mapping, reducing configuration time
- ◆ Secure module configuration via on module switch
- ◆ Can be used in a redundant ControlLogix system
- ◆ Built-in packet analyzer for DF1 networks

## DF1 Radio Modem



Connect Logix-based PLCs to PCs over DF1 radio modem

- Supports store and forward

## Honeywell DCS Migration



Connect Logix-based PLCs to Honeywell DCS systems

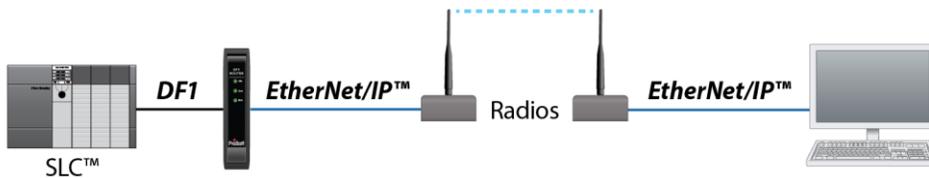
- Support for Honeywell TDC 3000+

## Messaging Between Controllers



Message between EtherNet/IP and DF1 controllers

## Wireless



Facilitates communication between DF1 and EtherNet/IP controllers in large, wide-ranging applications.



Where Automation Connects™

## Global Distribution

ProSoft Technology® products are distributed and supported worldwide through a network of over 500 distributors in over 50 countries. Our knowledgeable distributors are familiar with your application needs. For a complete list of distributors, go to our website at:

[www.prosoft-technology.com](http://www.prosoft-technology.com)

## Global Support

We are there for you

All ProSoft Technology products are backed with free technical support. Contact our worldwide Technical Support team directly by phone or email.

## Global Offices

We are where you are

ProSoft Technology has regional offices worldwide available to help you with all your industrial application needs. If you need help choosing a ProSoft Technology solution for your particular application check out our contact information under distributor sales on the website at:

[www.prosoft-technology.com](http://www.prosoft-technology.com)

Whether your application is large or small, our technical professionals are there to help you choose the right communication solution.

## Specifications

<b>EtherNet/IP</b>	<b>Description</b>
Connector	RJ45
Conductors	CAT5 STP/UTP
ARP Connections	Max 20
TCP Connections	Max 20
CIP Connections	Max 10
Communication Rate	10/100 Mbps
Duplex Mode	Full / Half / Auto-Negotiate
Auto MDIX	Yes

<b>DF1</b>	<b>Description</b>
Protocol	DF1 Full Duplex, DF1 Half Duplex, DF1 Radio Modem
Baud Rates	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
Parity	None, Even, Odd
Data Bits	8
Stop Bits	1
Error Detection	CRC, BCC
Embedded Response	Auto, On
Bridge Mode Mapping	Max 20 routes
Slave Mode Mapping	Max 20 routes
Slave Mode Message Support	PLC-5 Typed Read, PLC-5 Typed Write, SLC Typed Read, SLC Typed Write, PLC-2 Unprotected Read, PLC-2 Unprotected Write, PLC-2 Unprotected Bit Write
Scheduled Tag Mode Message Support (Master)	PLC-5 Typed Read, PLC-5 Typed Write, SLC Typed Read, SLC Typed Write

## Hardware Specifications

<b>Specification</b>	<b>Description</b>
Enclosure	Plastic
Enclosure Rating	IP20, NEMA/UL Open Type
Dimensions (H x W x D)	101.0 x 22.5 x 120.0 mm
Power Requirements	Input: 10 to 28 VDC, (70 mA @ 24 VDC / 130 mA @ 10 VDC)
Power Consumption	1.7 W
Power Connector	3-way terminal
Conductors	24 to 18 AWG
Temperature	-20°C to 70°C
Earth Connection	Yes, terminal based
Emissions	IEC61000-6-4
ESD Immunity	EN 61000-4-2
Radiated RF Immunity	IEC 61000-4-3
EFT/B Immunity	EFT: IEC 61000-4-4
Surge Immunity	Surge: IEC 61000-4-5
Conducted RF Immunity	IEC 61000-4-6

## Regulatory Approvals

### Agency

ATEX: Zone 2 Cat 3

UL/cUL Class 1 Div 2

### Regulatory

CB Safety

CE



## Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms. For a complete list of products, visit our website at: [www.prosoft-technology.com](http://www.prosoft-technology.com)

## Ordering Information

To order this product, please use the following:

## DF1 Messaging Module

PLX51-DF1-MSG

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to: [www.prosoft-technology.com](http://www.prosoft-technology.com) and select *Where to Buy* from the menu.

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